JCA
Future Initiatives

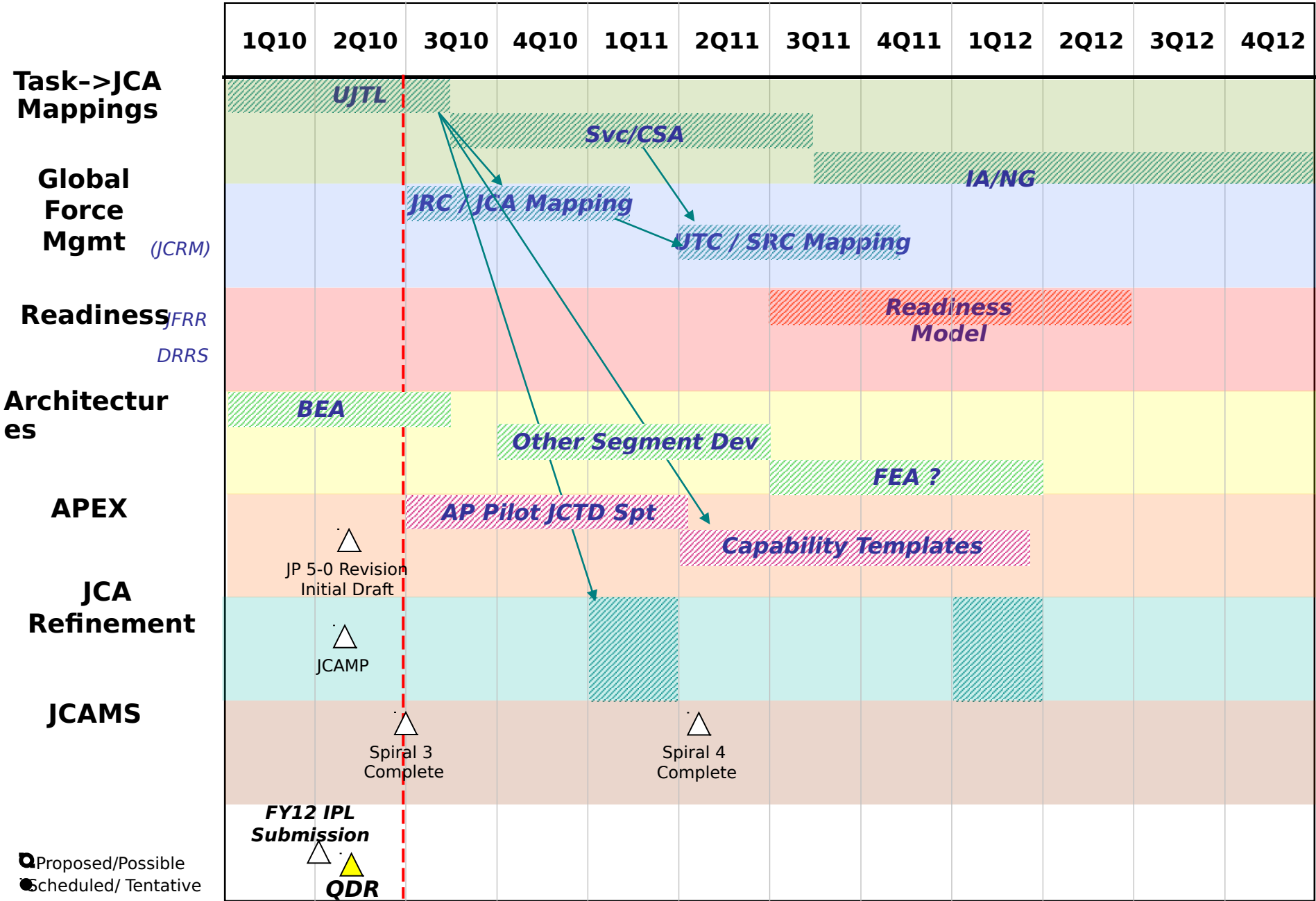
to

WJTSC 10-1

31 March 2010

Joint Staff J-7, JFDID

Mid-term JCA Timeline



Current & Future Initiatives

Current:

- JCA – Joint Capability Requirements Manager (JCRM) integration
- Operational Contract Support Task Force – Implementation

Near to Mid-term:

- Architecture Uses
  - Joint C2 Architecture Capability Assessment Enterprise (JACAE)
  - Joint Mission Threads (JMT) and Operational Testing & Evaluation
- JCA Refinement – Oct 2010
- Service / Agency Tasks to JCA Mapping
- Adaptive Planning Pilot (APP) JCTD support

Long-term:

- Adaptive Planning (APEX) support (capability templates)
- JCA – Chairman's Readiness System integration
- Federal Enterprise Architecture (FEA)

JCA Refinement

- **JCA Core Team**
  - Update JCA POCs *(JSAP – S: 18 Mar)*
  - Re-convene the Core Team – Refinement Process Brief
- **Known Issues Working Groups** *(prior to data call)*
  - Engineering / Installation Support
  - Corporate Management and Support (BTA)
  - Human Terrain / Linguists / Chaplain
  - Space Enablers
  - Logistics – Class of Supply vs. Supply Chain function
- **Data Call** *(Sep)*
- **Refinement Process as defined in JCAMP** *(Oct-Nov)*
- ***Other Considerations***
  - *JCA co-chair IPRs*
  - *Outreach to new users in the JCA COI*
  - *JCA refinement functionality in JCAMS Spiral 4*

JCA Refinement (con't)

- **JCAMP Guidance – JCAs should:**
  - use a functional framework
  - to the extent possible, be mutually exclusive
  - capture all DoD capabilities
  - ***promote a stable framework***
  - be develop / managed according to the Capability Relationship Model
  - developed to a level of fidelity that supports capability analysis, strategy development, investment decision making, capability portfolio management, and capabilities-based force development and operational planning
  - remain a logical breakdown of functional capability areas into sub-components and does not constitute prioritization or importance

Known JCA Refinement Aim Points

- Gaps
  - Biometrics
  - Science reach-back / CBRN forensics
  - Chaplain
  - Interpreters / Human terrain
  - Personal security
- Overlaps
  - Engineering
  - Installations Support
  - Logistics Services
- Further decomposition / refinement
  - Corporate Management & Support
  - Logistics
- Special interest areas
  - Space Enabler JCA
  - Doctrinal alignment

Enterprise Architectural Uses

United States Joint Forces Command
Joint Mission Thread (JMT)
Development for Reusability

JAIWG
11 Dec 2009

USJFCOM J89
Joint Architectures & Capability Engineering

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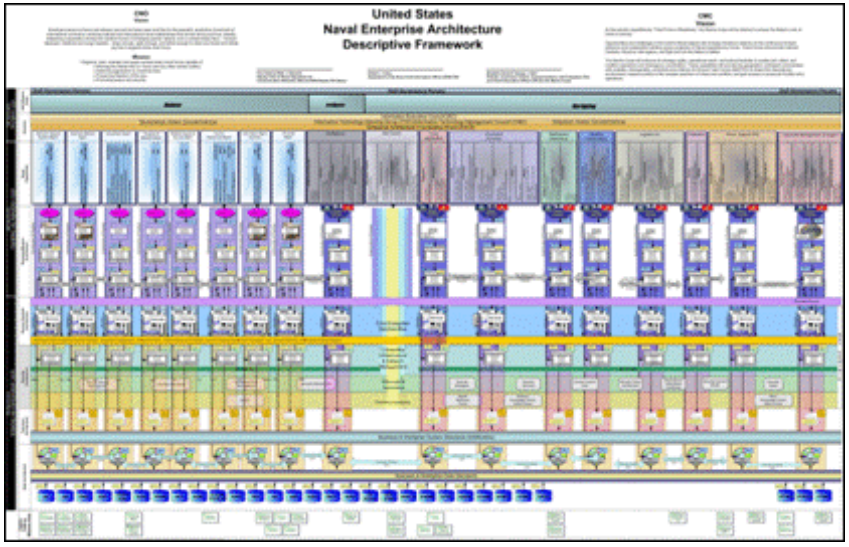

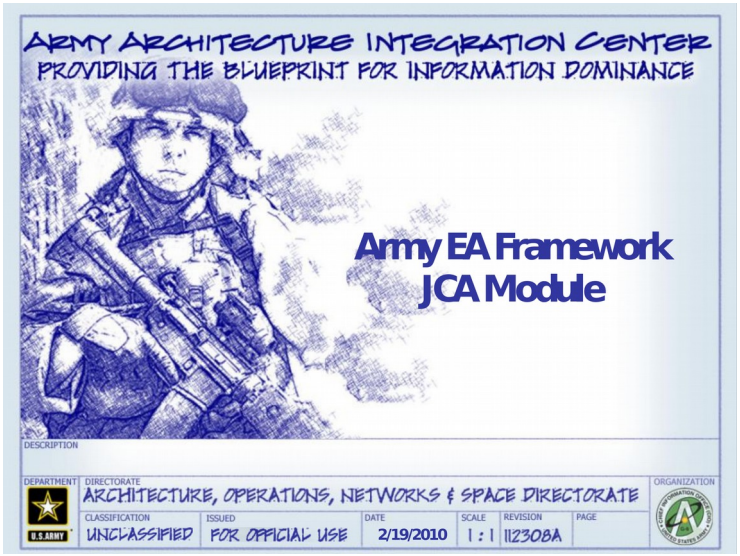

United States Joint Forces Command
Joint Command and Control (JC2) Architecture
and Capability Assessment Enterprise (JACAE)

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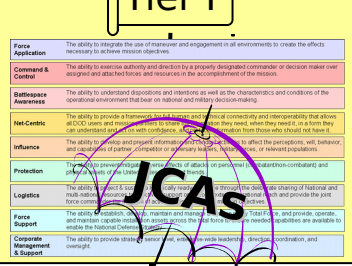
Capability Mapping Baseline

Operational Context "Periodic Table" for Analysis

Joint Capability Areas (JCAs)

Tier I



JCAs

Joint Staff J7 Mapping

Systems Functions

Joint Common System Functions List (JCSFL)

- USN
- USMC
- USA
- USAF
- NCES/NEC
- Other CPMs

C2 Portfolio*

- Programs of Record
- Systems
- Sub-systems
- New Capabilities

Operational Activities

UJTL
SN X.X
ST X.XX
OP X.X.X
TA X.X.X.X

JTF Operational Activities / Tasks / Sub-tasks

Joint Tasks

AUTLs, MCTL, NTTL, AFTL

Service Tasks

Operational Nodes & Billets

Op Nodes

Joint Warfighter Billets

CPM Areas

- Technical
  - Architectures
  - Analysis
  - Accreditations
  - Platforms/Weapons
  - ADS & Data Models
  - Applications/Services
  - Networks/Comms
- Operational
  - Assessments
  - Documentation
  - Concepts/Plans
- Programmatic
  - JCAs- to- PECs

CAPE Mapping

JCAs

Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards

Joint Integration & Interoperability Recommendations via *Detailed* DOTMLPF Analysis

Authoritative Sources:

Capability Mapping Baseline

Operational Context "Periodic Table" for Analysis

Joint Capability Areas (JCAs) | **Systems Functions** | **CPM Areas**

Tier I

Force Application	The ability to integrate the use of maneuver and engagement in all environments to create the effects necessary to achieve mission objectives.
Command & Control	The ability to exercise authority and direction by a properly designated commander or decision maker over assigned and attached forces and resources in the accomplishment of the mission.
Battlespace Awareness	The ability to understand dispositions and intentions as well as the characteristics and conditions of the operational environment that bear on national and military decision-making.
Net-Centric	The ability to provide a framework for full human and technical connectivity and interoperability that allows all DOD users and mission partners to share the information they need, when they need it, in a form they can understand and act on with confidence, and protects information from those who should not have it.
Influence	The ability to develop and present information and actions to affect the perceptions, will, behavior, and capabilities of partner, competitor or adversary leaders, militaries, or relevant populations.
Protection	The ability to prevent/mitigate adverse effects of attacks on personnel (to include non-combatant) and physical assets of the United States and its allies.
Logistics	The ability to project & sustain [illegible] capability through the delivery and sharing of National and multi-national resources to support the joint force commander's operational needs and provide the joint force commander freedom of action and extend operational reach.
Force Support	The ability to establish, maintain and manage a Total Force, and provide, operate, and maintain capable installation assets across the total force, to ensure needed capabilities are available to enable the National Defense Strategy.
Corporate Management & Support	The ability to provide strategic direction, enterprise wide leadership, direction, coordination, and oversight.

JCAs

Joint Staff J7 Mapping

Joint Common System Functions List (JCSFL)

USN
USMC
USA
USAF
NCES/NEC
Other CPMs

C2 Portfolio

- Programs of Record
- Systems
- Sub-systems
- New Capabilities

Mission & Enablers

How?

Architectures

Analysis

Technical Standards

Accreditations

Platforms/Weapons

ADS & Data Models

Applications/Services

Networks/Comms

Operational

Assessments

Documentation

Concepts/Plans

Programmatic

JCAs to PECs

CAPE Mapping

JCAs

Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards
Policy
Standards

Joint Integration & Interoperability Recommendations via *Detailed* DOTMLPF Analysis

Operational Activities

Task

What? When?

UJTL
SN X.X
ST X.XX
OP X.X.X
TA X.X.X.X

Operational Activities / Tasks / Sub-tasks

Joint Tasks

AUTLs, MCTL, NTTL, AFTL

Service Tasks

Operational Nodes & Billets

Performer:

Who? Where?

Authoritative Sources:

Authoritative Sources – Why?

NR ID Net Enabled Requirements Identification Database

Capability Mapping Baseline

Operational Context "Periodic Table" for Analysis

Joint Capability Areas (JCAs)

Tier I

JCAs

Joint Staff J7 Mapping

Systems Functions

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CPM Areas

Technical

- Architectures
- Analysis
- Accreditations
- Platforms/Weapons
- ADS & Data Models
- Applications/Services
- Networks/Comms

Operational

- Assessments
- Documentation
- Concepts/Plans

Programmatic

- JCAs- to- PECs

CAPE Mapping

JCAs

Operational Activities

UJTL
SN X.X
ST X.XX
OP X.X.X
TA X.X.X.X

JTF Operational Activities / Tasks / Sub-tasks

Joint Tasks

AUTLs, MCTL, NTTL, AFTL

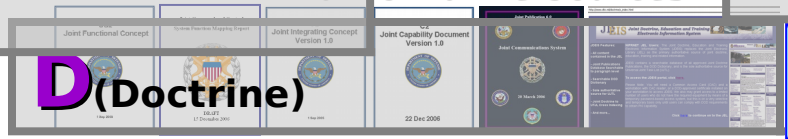
Service Tasks

Operational Nodes & Billets

Op Nodes

Joint Warfighter Billets

Authoritative Sources:



M (Materiel)

L (Leadership)

T (Training)

P (Personnel)

O (Organization)

F (Facilities)

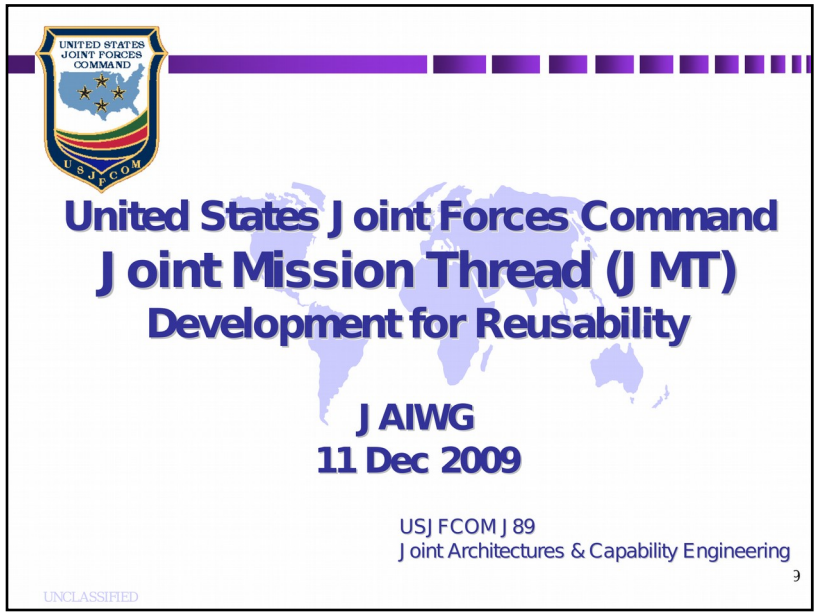
D (Doctrine)

P (Policy)

- Policy
- Standards
- Policy
- Standards
- Policy
- Standards
- Policy
- Standards
- Policy
- Standards
- Policy
- Standards
- Policy
- Standards
- Policy
- Standards

Joint Integration & Interoperability Recommendations via *Detailed* DOTMLPF Analysis

Joint Mission Threads



Joint Mission Thread (JMT):

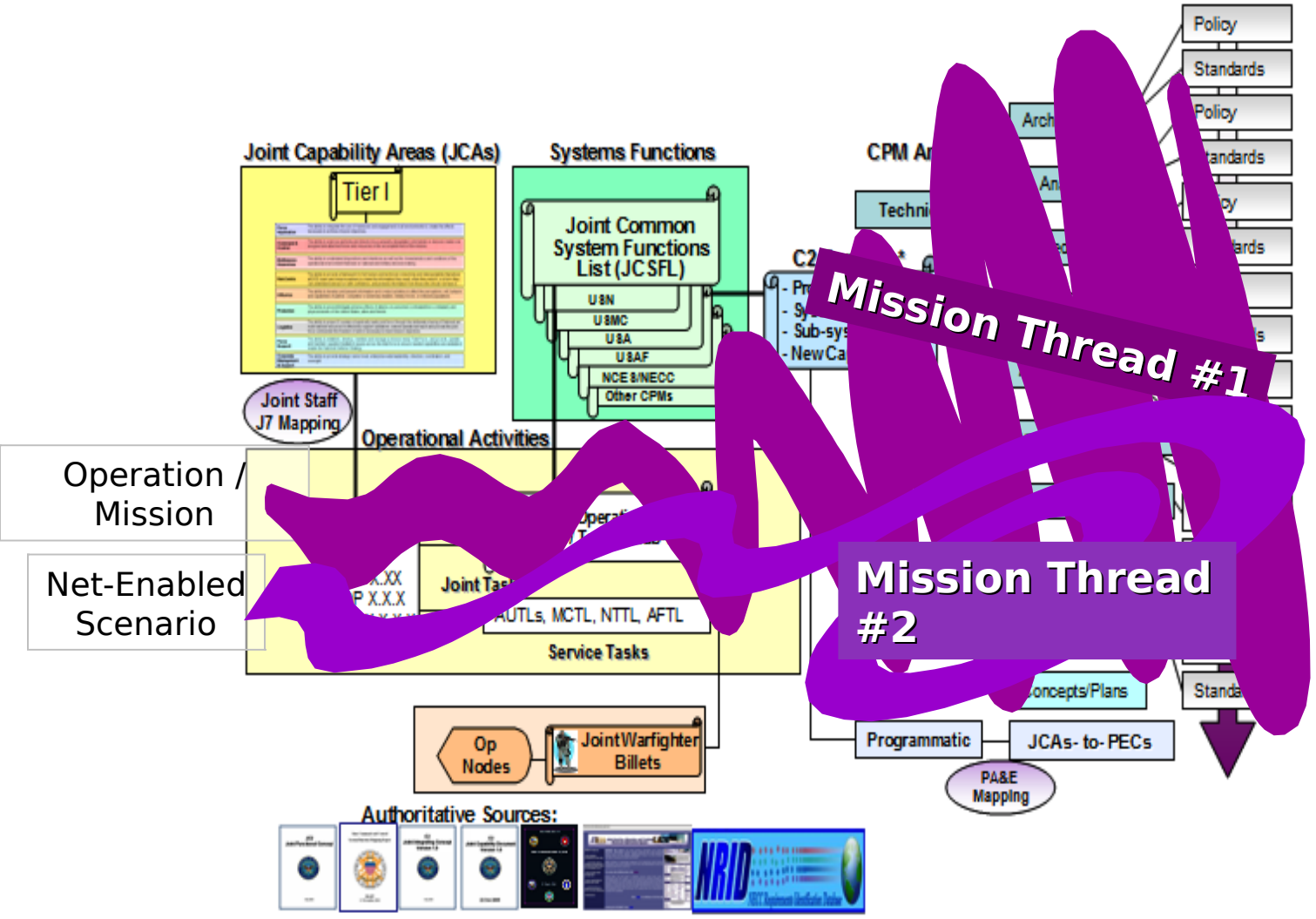
an operational and technical description of the end-to-end set of activities and systems that accomplish the execution of a *joint mission*. (CJCSI 6212.01E)

- **JMTs required to provide operational context for Joint Analysis, Assessments, Training, Experiments, Training, T&E and M&S**

- **but… Jointly validated, fully documented JMTs don't exist**

Joint Mission Threads

"Pulled" Through Capability Mapping Elements and Reused



Reusable JMT Data

Mission Thread # 3
Mission Thread # 4
Etc….

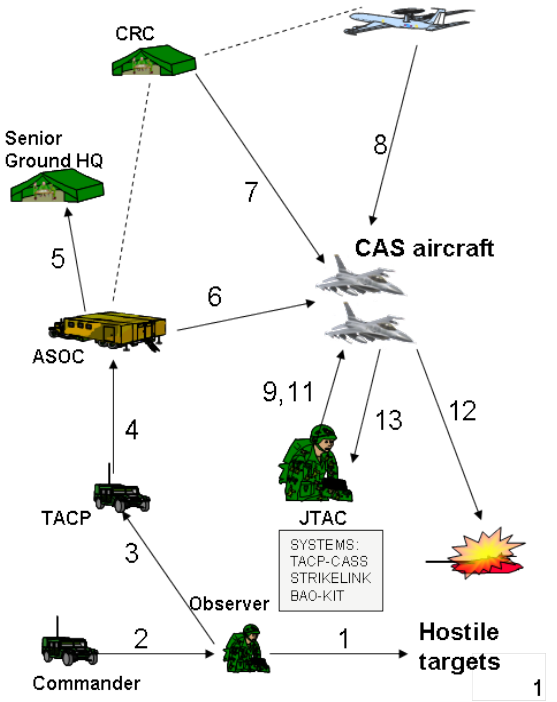
Joint Mission Thread (JMT) Initial List

Initial JMT List

- Counter IED
- Joint Personnel Recovery (JPR)
- Joint Suppression of Air Enemy Defense (JSEAD)
- Interdiction
- Joint Close Air Support (JCAS)
- Defensive Countermeasures
- EW/EA
- Military Deception
- Mine Operations
- CND/CNA/CNE
- Time Sensitive Targeting
- Joint Fires
- Counter Mine
- Counter Drug
- Amphibious Assault
- Tactical Airlift
- Medical Evacuation
- Air and Missile Defense
- CWMD
- PSYOP
- Maritime Interception
- Non-Lethal Attack
- Non Combat Evacuation
- Anti Air Warfare

Joint Close Air Support

Mission Event No.	Description
1	Unit detects target
2	Commander decides to request CAS
3	Unit notified TACP
4	TACP passes request to ASOC
5	ASOC coordinates with senior ground HQs which approve request
6	ASOC assigns on-call aircraft
7	CRC send aircraft to contact point (CP)
8	AWACS passes critical updates to aircraft
9	JTAC briefs aircraft
10	Aircraft depart initial point (IP)
11	JTAC controls CAS aircraft
12	Bombs on target
13	Assessment



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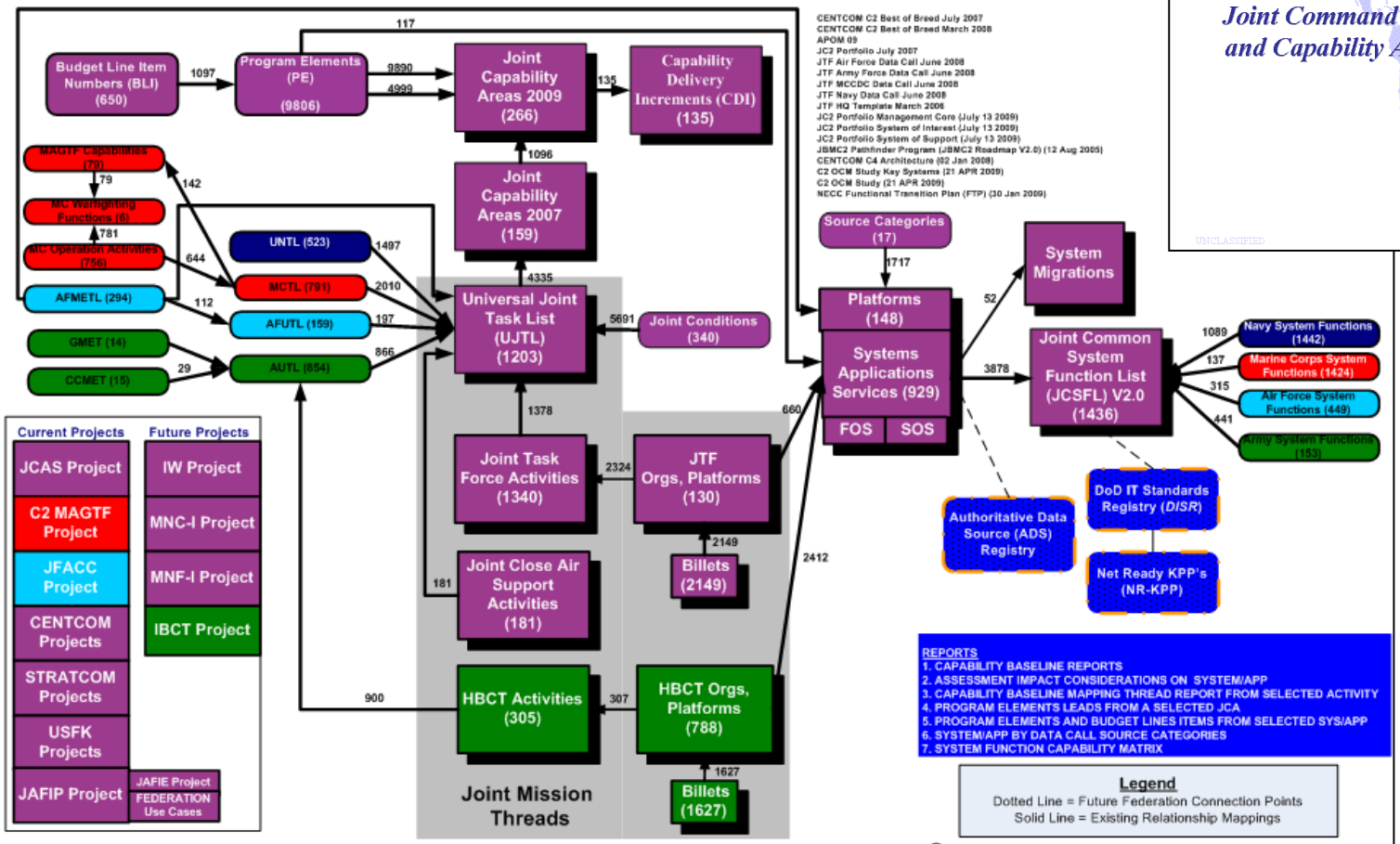
JACAE Capability Mapping Architecture (29 October 2009)


Budget Line Item Numbers (BLI) (650)
Program Elements (PE) (9806)
Joint Capability Areas 2009 (266)
Capability Delivery Increments (CDI) (135)
Joint Capability Areas 2007 (159)
MAGTF Capabilities (79)
MC Warfighting Functions (6)
MC Operation Activities (756)
UNTL (523)
MCTL (791)
AFUTL (159)
AUTL (854)
AFMETL (294)
GMET (14)
CCMET (15)
Universal Joint Task List (UJTL) (1203)
Joint Conditions (340)
Joint Task Force Activities (1340)
JTF Orgs, Platforms (130)
Billets (2149)
Joint Close Air Support Activities (181)
HBCT Activities (305)
HBCT Orgs, Platforms (788)
Billets (1627)
Joint Mission Threads
Source Categories (17)
Platforms (148)
Systems Applications Services (929)
FOS
SOS
System Migrations
Joint Common System Function List (JCSFL) V2.0 (1436)
Navy System Functions (1442)
Marine Corps System Functions (1424)
Air Force System Functions (449)
Army System Functions (153)
Authoritative Data Source (ADS) Registry
DoD IT Standards Registry (DISR)
Net Ready KPP's (NR-KPP)
CENTCOM C2 Best of Breed July 2007
CENTCOM C2 Best of Breed March 2008
APOM 09
JC2 Portfolio July 2007
JTF Air Force Data Call June 2008
JTF Army Force Data Call June 2008
JTF MCCDC Data Call June 2008
JTF Navy Data Call June 2008
JTF HQ Template March 2008
JC2 Portfolio Management Core (July 13 2009)
JC2 Portfolio System of Interest (July 13 2009)
JC2 Portfolio System of Support (July 13 2009)
JBMC2 Pathfinder Program (JBMC2 Roadmap V2.0) (12 Aug 2005)
CENTCOM C4 Architecture (02 Jan 2008)
C2 OCM Study Key Systems (21 APR 2009)
C2 OCM Study (21 APR 2009)
NECC Functional Transition Plan (FTP) (30 Jan 2009)
Current Projects
JCAS Project
C2 MAGTF Project
JFACC Project
CENTCOM Projects
STRATCOM Projects
USFK Projects
JAFIP Project
Future Projects
IW Project
MNC-I Project
MNF-I Project
IBCT Project
JAFIE Project
FEDERATION Use Cases
REPORTS
1. CAPABILITY BASELINE REPORTS
2. ASSESSMENT IMPACT CONSIDERATIONS ON SYSTEM/APP
3. CAPABILITY BASELINE MAPPING THREAD REPORT FROM SELECTED ACTIVITY
4. PROGRAM ELEMENTS LEADS FROM A SELECTED JCA
5. PROGRAM ELEMENTS AND BUDGET LINES ITEMS FROM SELECTED SYS/APP
6. SYSTEM/APP BY DATA CALL SOURCE CATEGORIES
7. SYSTEM FUNCTION CAPABILITY MATRIX
Legend
Dotted Line = Future Federation Connection Points
Solid Line = Existing Relationship Mappings

~ 64,400 Objects
~73,000 Mappings

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Capability Baseline Mapping Thread Report from Selected Activity

JACAE

Control Joint Fire Support - JTF HQ Training Guide	Activity	JTF Enterprise Project Baseline 1.0
Control Joint Fire Support - JTF HQ Training Guide	Activity	JACAE Master Project
OP 3.1.7 Employ Fire Support Coordination Measures- ATD	UJTL Activity	JACAE Master Project
Conduct Operational Movement and Maneuver	Joint Capability Area	JACAE Master Project
JCA Deployment and Distribution	New Joint Capability Area	JACAE Master Project
JCA Force Application	New Joint Capability Area	JACAE Master Project
JCA Maneuver	New Joint Capability Area	JACAE Master Project
JCA Move the Force	New Joint Capability Area	JACAE Master Project
JCA Logistics	New Joint Capability Area	JACAE Master Project
Maritime Defense	Joint Capability Area	JACAE Master Project
JCA Protection	New Joint Capability Area	JACAE Master Project
JCA Prevent	New Joint Capability Area	JACAE Master Project
JCA Intelligence, Surveillance and Reconnaissance Planning & Direction	New Joint Capability Area	JACAE Master Project
JCA Mitigate Lethal Effects	New Joint Capability Area	JACAE Master Project
JCA Engagement	New Joint Capability Area	JACAE Master Project
JCA Kinetic Means	New Joint Capability Area	JACAE Master Project
JCA Prevent Kinetic Attack	New Joint Capability Area	JACAE Master Project
JCA Force Application	New Joint Capability Area	JACAE Master Project
JCA Mitigate	New Joint Capability Area	JACAE Master Project
JCA Battlespace Awareness	New Joint Capability Area	JACAE Master Project
JCA Intelligence, Surveillance and Reconnaissance	New Joint Capability Area	JACAE Master Project
Conduct Decisive Maneuver	Joint Capability Area	JACAE Master Project
JCA Maneuver	New Joint Capability Area	JACAE Master Project
JCA Maneuver to Engage (MTE)	New Joint Capability Area	JACAE Master Project
JCA Force Application	New Joint Capability Area	JACAE Master Project
Riverine Operations	Joint Capability Area	JACAE Master Project
JCA Engagement	New Joint Capability Area	JACAE Master Project
JCA Maneuver to Insert (MTI)	New Joint Capability Area	JACAE Master Project
JCA Force Application	New Joint Capability Area	JACAE Master Project
JCA Force Application	New Joint Capability Area	JACAE Master Project
JCA Prevent Kinetic Attack	New Joint Capability Area	JACAE Master Project
JCA Kinetic Means	New Joint Capability Area	JACAE Master Project
JCA Mitigate	New Joint Capability Area	JACAE Master Project
ART 5.3.5.2.4 Process Relevant Information to Create a Common Operational Picture	Army Service Task	JACAE Master Project
ART 3.3.1 Conduct Fires	Army Service Task	JACAE Master Project
ART 6.4.1 Detect And Establish Positive Identification Of Friend, Foe, And Noncombatants	Army Service Task	JACAE Master Project
ART 5.3.5.2.7 Disseminate Common Operational Picture and Execution Information	Army Service Task	JACAE Master Project
ART 3.3 Provide Fire Support	Army Service Task	JACAE Master Project
MCT 5.3.4.4 Coordinate Ground Surface Fires	Marine Corps Service Task	JACAE Master Project
NTA 5.4.3.3 Coordinate Naval Surface Fire Support (NSFS)	Navy Service Task	JACAE Master Project
ART 7.5.1 Attack By Fire An Enemy Force Or Position	Army Service Task	JACAE Master Project
NTA 3.1.2 Select Target to Attack	Navy Service Task	JACAE Master Project
MCT 5.3.4.3 Coordinate Naval Surface Fire Support (NSFS)	Marine Corps Service Task	JACAE Master Project
NTA 5.4.3.2 Develop/Publish Fire Support Measures	Navy Service Task	JACAE Master Project
NTA 5.1.3.1 Maintain and Display Tactical Picture	Navy Service Task	JACAE Master Project
MCT 5.3.3.5 Establish Fire Support Coordination Measures (FSCM)	Marine Corps Service Task	JACAE Master Project
MCT 5.3.5.6 Coordinate Aviation Operations with Area of Operations (AO) Fire Support Coordina	Marine Corps Service Task	JACAE Master Project
OP 3.2.6 Provide Firepower in Support of Operational Maneuver	UJTL Activity	JACAE Master Project
OP 3 Employ Operational Firepower- ATD	UJTL Activity	JACAE Master Project
OP 3.1.8 Coordinate Immediate Targets for Two or More Components- ATD	UJTL Activity	JACAE Master Project
OP 1.2.5 Conduct Offensive Operations in the Joint Operations Area- ATD	UJTL Activity	JACAE Master Project
OP 3.2.7 Synchronize Operational Firepower- ATD	UJTL Activity	JACAE Master Project
OP 1.2.6 Conduct Defensive Operations in the Joint Operations Area- ATD	UJTL Activity	JACAE Master Project
OP 3.2 Attack Operational Targets- ATD	UJTL Activity	JACAE Master Project
JTF J-3 Joint Fires Element	Organization Unit	JTF Enterprise Project Baseline 1.0
Chief Joint Fires & Effects	Billet Requirement	JTF Enterprise Project Baseline 1.0
Deputy Chief Joint Fires & Effects	Billet Requirement	JTF Enterprise Project Baseline 1.0
JFE Senior Enlisted	Billet Requirement	JTF Enterprise Project Baseline 1.0

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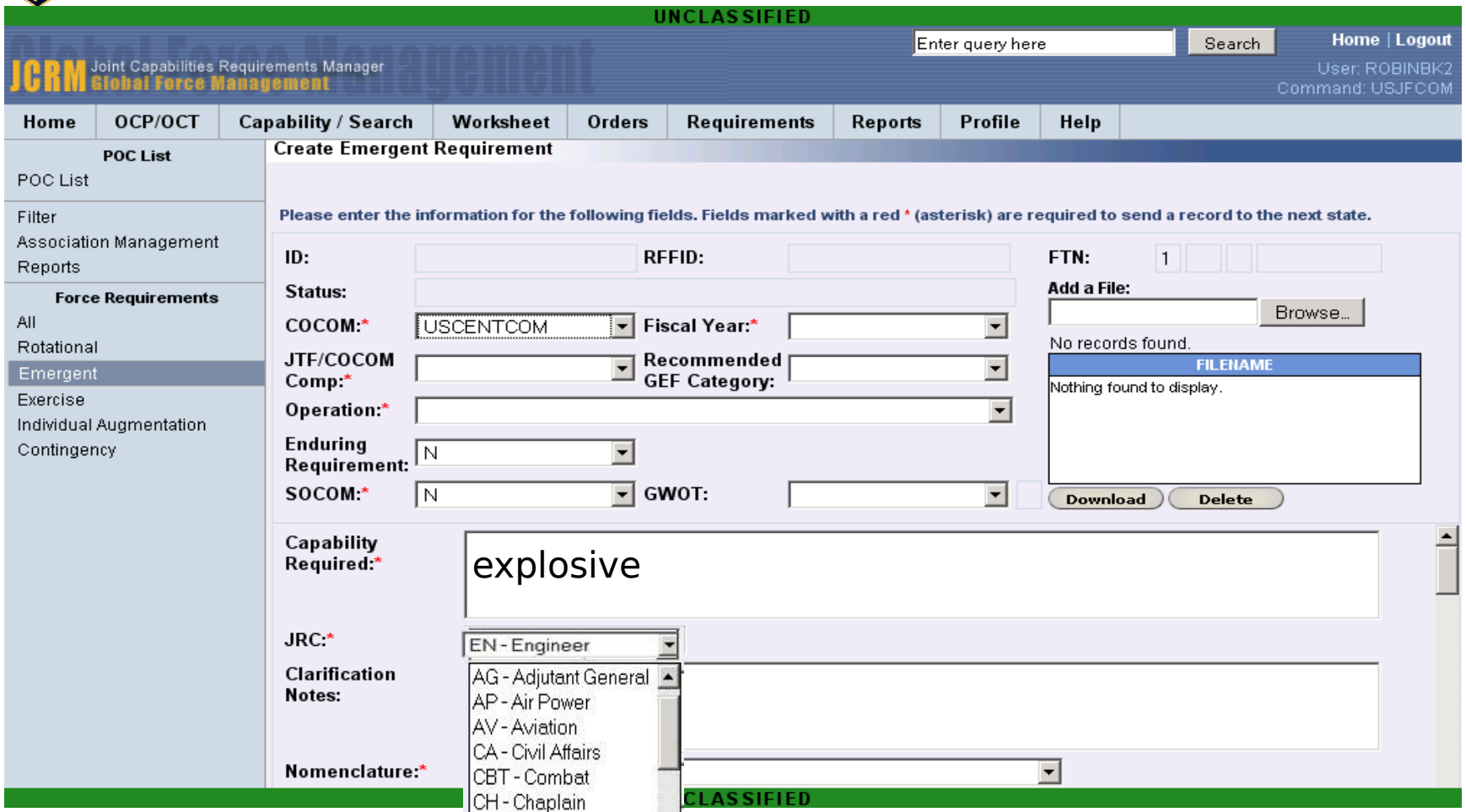
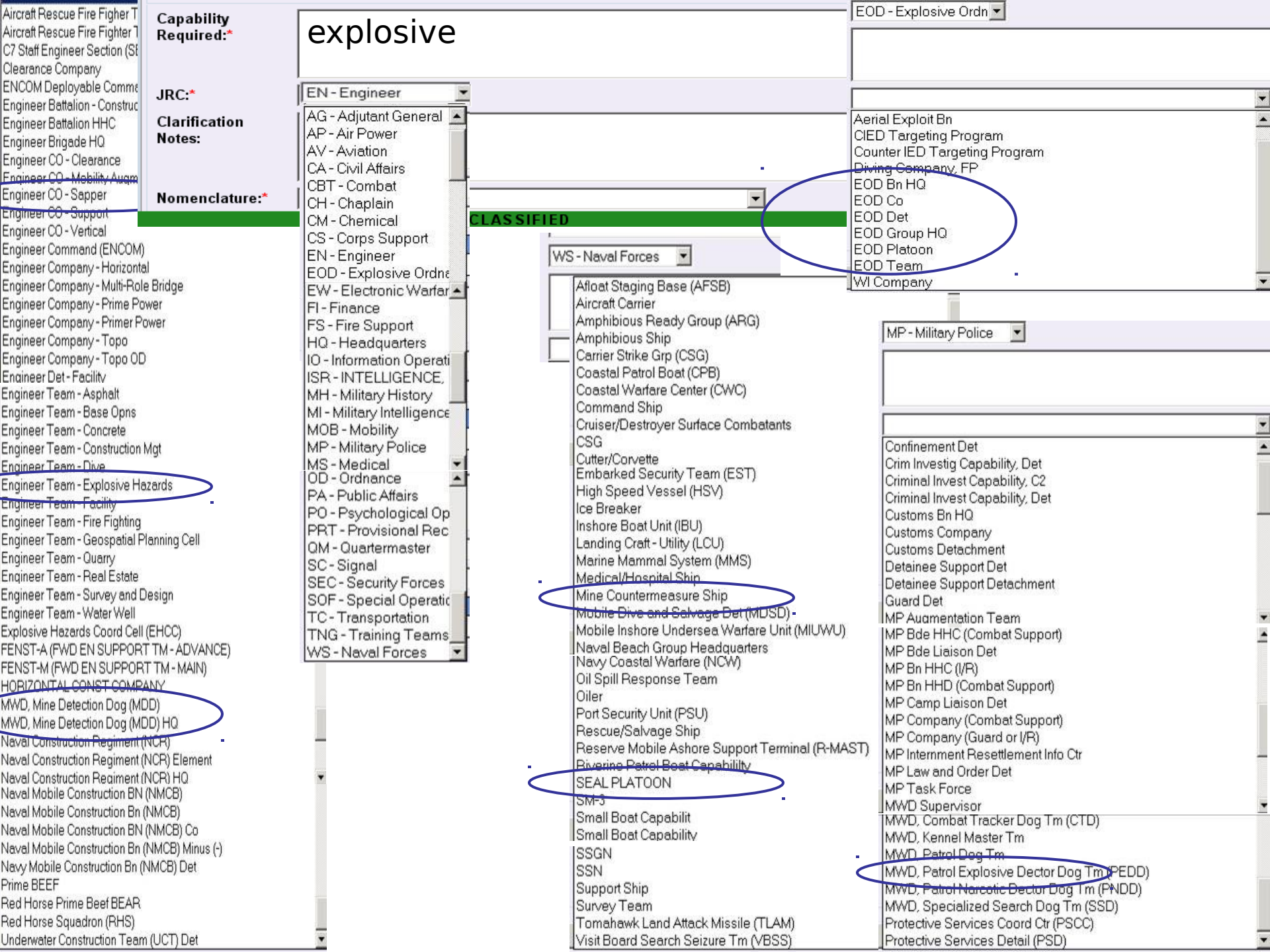
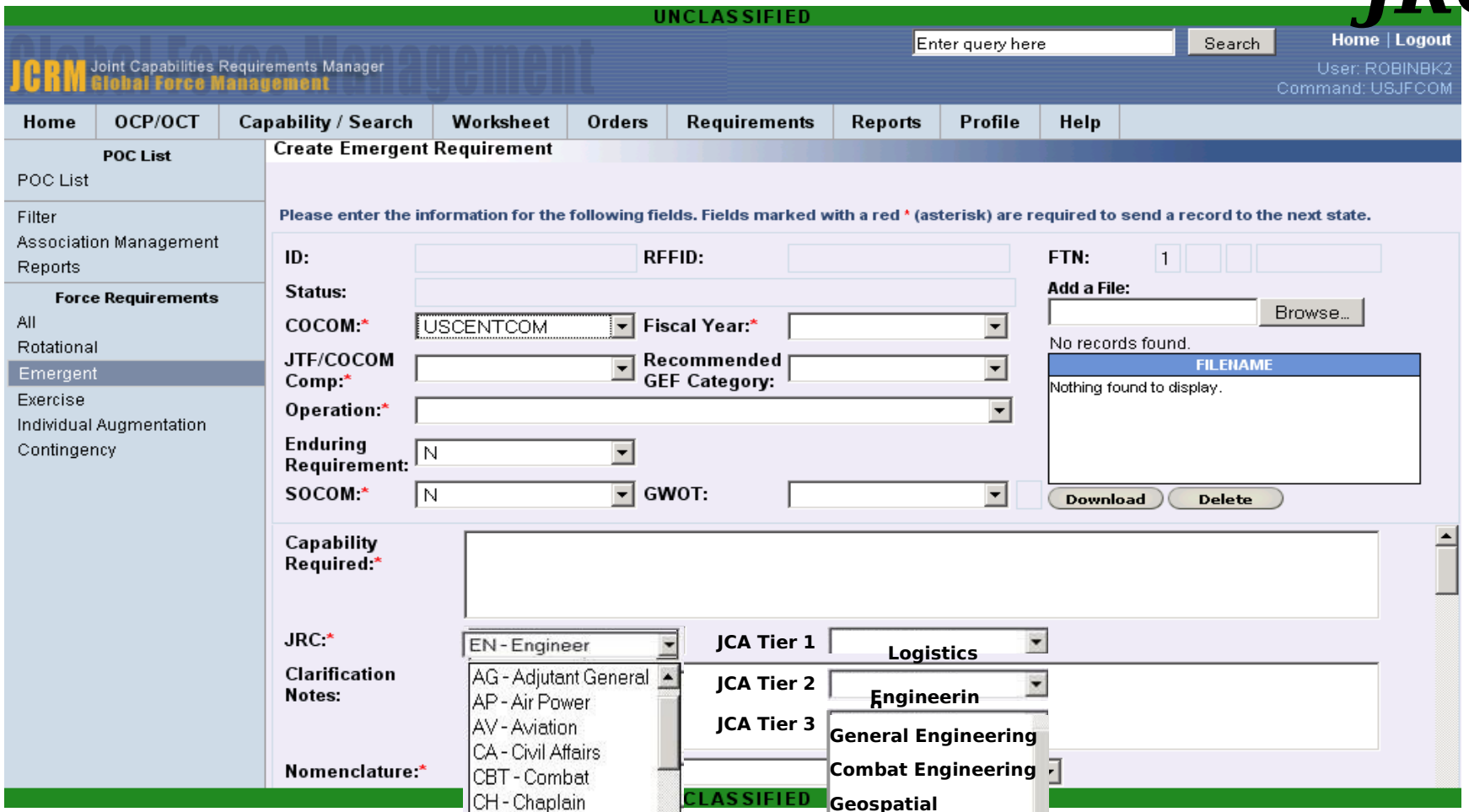
Joint Capabilities Requirements Manager (JCRM)

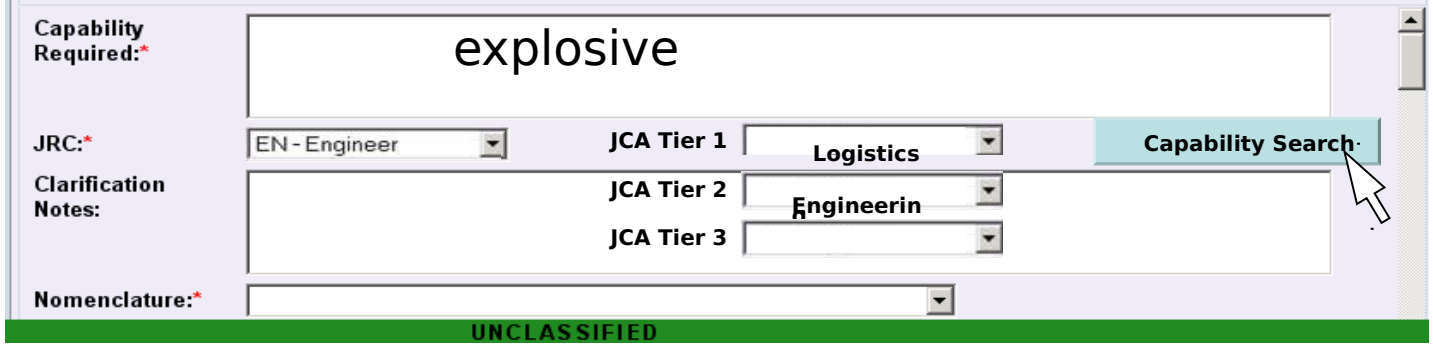
Joint Requirements Code (JRC)




Capability Required:*
explosive
JRC:*
EN - Engineer
Clarification Notes:
Nomenclature:*
CLASSIFIED
EOD - Explosive Ordn
Aerial Exploit Bn
CIED Targeting Program
Counter IED Targeting Program
Diving Company, FP
EOD Bn HQ
EOD Co
EOD Det
EOD Group HQ
EOD Platoon
EOD Team
WI Company
AG - Adjutant General
AP - Air Power
AV - Aviation
CA - Civil Affairs
CBT - Combat
CH - Chaplain
CM - Chemical
CS - Corps Support
EN - Engineer
EOD - Explosive Ordne
EW - Electronic Warfar
FI - Finance
FS - Fire Support
HQ - Headquarters
IO - Information Operati
ISR - INTELLIGENCE,
MH - Military History
MI - Military Intelligence
MOB - Mobility
MP - Military Police
MS - Medical
OD - Ordnance
PA - Public Affairs
PO - Psychological Op
PRT - Provisional Rec
QM - Quartermaster
SC - Signal
SEC - Security Forces
SOF - Special Operatic
TC - Transportation
TNG - Training Teams
WS - Naval Forces
WS - Naval Forces
Afloat Staging Base (AFSB)
Aircraft Carrier
Amphibious Ready Group (ARG)
Amphibious Ship
Carrier Strike Grp (CSG)
Coastal Patrol Boat (CPB)
Coastal Warfare Center (CWC)
Command Ship
Cruiser/Destroyer Surface Combatants
CSG
Cutter/Corvette
Embarked Security Team (EST)
High Speed Vessel (HSV)
Ice Breaker
Inshore Boat Unit (IBU)
Landing Craft - Utility (LCU)
Marine Mammal System (MMS)
Medical/Hospital Ship
Mine Countermeasure Ship
Mobile Dive and Salvage Det (MDSD)
Mobile Inshore Undersea Warfare Unit (MIUWU)
Naval Beach Group Headquarters
Navy Coastal Warfare (NCW)
Oil Spill Response Team
Oiler
Port Security Unit (PSU)
Rescue/Salvage Ship
Reserve Mobile Ashore Support Terminal (R-MAST)
Riverine Patrol Boat Capability
SEAL PLATOON
SMF
Small Boat Capabilit
Small Boat Capability
SSGN
SSN
Support Ship
Survey Team
Tomahawk Land Attack Missile (TLAM)
Visit Board Search Seizure Tm (VBSS)
MP - Military Police
Confinement Det
Crim Investig Capability, Det
Criminal Invest Capability, C2
Criminal Invest Capability, Det
Customs Bn HQ
Customs Company
Customs Detachment
Detainee Support Det
Detainee Support Detachment
Guard Det
MP Augmentation Team
MP Bde HHC (Combat Support)
MP Bde Liaison Det
MP Bn HHC (I/R)
MP Bn HHD (Combat Support)
MP Camp Liaison Det
MP Company (Combat Support)
MP Company (Guard or I/R)
MP Internment Resettlement Info Ctr
MP Law and Order Det
MP Task Force
MWD Supervisor
MWD, Combat Tracker Dog Tm (CTD)
MWD, Kennel Master Tm
MWD, Patrol Dog Tm
MWD, Patrol Explosive Dector Dog Tm (PEDD)
MWD, Patrol Narcotic Dector Dog Tm (PNDD)
MWD, Specialized Search Dog Tm (SSD)
Protective Services Coord Ctr (PSCC)
Protective Services Detail (PSD)
Aircraft Rescue Fire Fighter T
Aircraft Rescue Fire Fighter T
C7 Staff Engineer Section (SE
Clearance Company
ENCOM Deployable Comme
Engineer Battalion - Construc
Engineer Battalion HHC
Engineer Brigade HQ
Engineer CO - Clearance
Engineer CO - Mobility Augm
Engineer CO - Sapper
Engineer CO - Support
Engineer CO - Vertical
Engineer Command (ENCOM)
Engineer Company - Horizontal
Engineer Company - Multi-Role Bridge
Engineer Company - Prime Power
Engineer Company - Primer Power
Engineer Company - Topo
Engineer Company - Topo OD
Engineer Det - Facility
Engineer Team - Asphalt
Engineer Team - Base Opns
Engineer Team - Concrete
Engineer Team - Construction Mgt
Engineer Team - Dive
Engineer Team - Explosive Hazards
Engineer Team - Facility
Engineer Team - Fire Fighting
Engineer Team - Geospatial Planning Cell
Engineer Team - Quarry
Engineer Team - Real Estate
Engineer Team - Survey and Design
Engineer Team - Water Well
Explosive Hazards Coord Cell (EHCC)
FENST-A (FWD EN SUPPORT TM - ADVANCE)
FENST-M (FWD EN SUPPORT TM - MAIN)
HORIZONTAL CONST COMPANY
MWD, Mine Detection Dog (MDD)
MWD, Mine Detection Dog (MDD) HQ
Naval Construction Regiment (NCR)
Naval Construction Regiment (NCR) Element
Naval Construction Regiment (NCR) HQ
Naval Mobile Construction BN (NMCB)
Naval Mobile Construction Bn (NMCB)
Naval Mobile Construction BN (NMCB) Co
Naval Mobile Construction Bn (NMCB) Minus (-)
Navy Mobile Construction Bn (NMCB) Det
Prime BEEF
Red Horse Prime Beef BEAR
Red Horse Squadron (RHS)
Underwater Construction Team (UCT) Det

Proposal: Map the JCAs to the JRC




Capability Required:*
explosive
JRC:*
EN - Engineer
JCA Tier 1
Logistics
JCA Tier 2
Engineerin
JCA Tier 3
Capability Search
Clarification Notes:
Nomenclature:*
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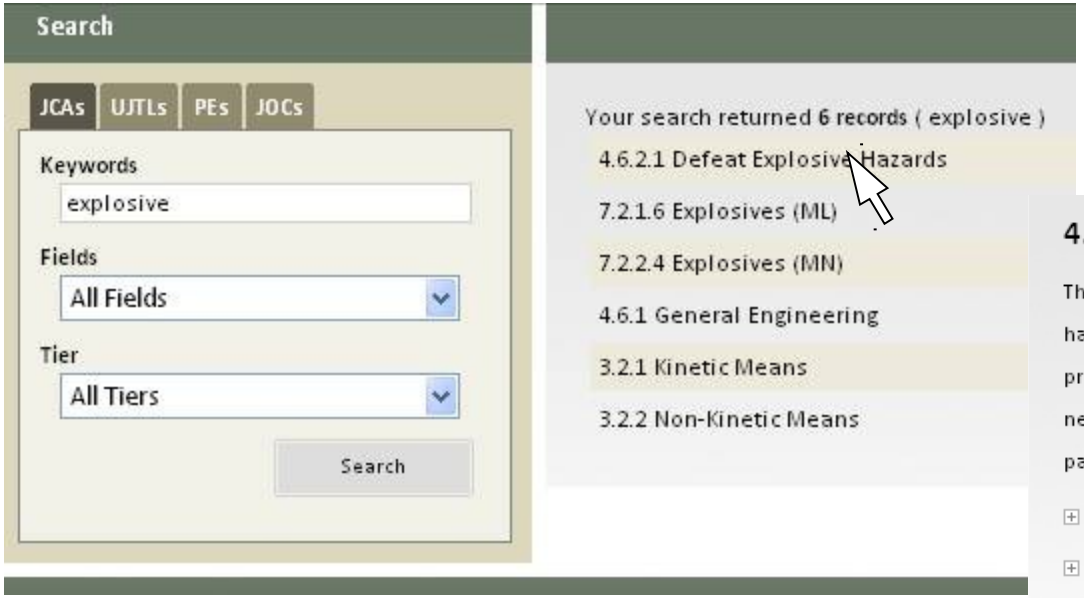
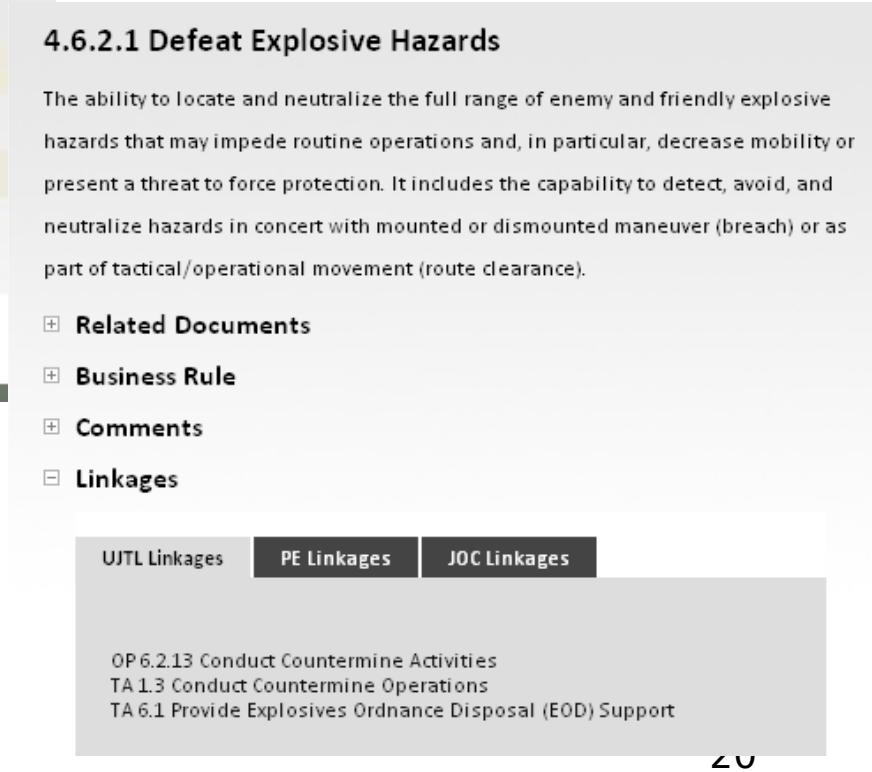

Search
JCAs
UJTLs
PEs
JOCs
Keywords
explosive
Fields
All Fields
Tier
All Tiers
Search
Your search returned 6 records (explosive)
4.6.2.1 Defeat Explosive Hazards
7.2.1.6 Explosives (ML)
7.2.2.4 Explosives (MN)
4.6.1 General Engineering
3.2.1 Kinetic Means
3.2.2 Non-Kinetic Means


4.6.2.1 Defeat Explosive Hazards
The ability to locate and neutralize the full range of enemy and friendly explosive hazards that may impede routine operations and, in particular, decrease mobility or present a threat to force protection. It includes the capability to detect, avoid, and neutralize hazards in concert with mounted or dismounted maneuver (breach) or as part of tactical/operational movement (route clearance).
Related Documents
Business Rule
Comments
Linkages
UJTL Linkages
PE Linkages
JOC Linkages
OP 6.2.13 Conduct Countermine Activities
TA 1.3 Conduct Countermine Operations
TA 6.1 Provide Explosives Ordnance Disposal (EOD) Support

Capability Required:*

JRC:* EN - Engineer

Clarification Notes:

Nomenclature:*

JCA Tier 1

JCA Tier 2

JCA Tier 3

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- 1 Force Support
- 2 Battlespace Awareness
- 3 Force Application
- 4 Logistics
  - 4.1 Deployment and Distribution
  - 4.2 Supply
  - 4.3 Maintain
  - 4.4 Logistics Services
  - 4.5 Operational Contract Support
  - 4.6 Engineering
    - 4.6.1 General Engineering
    - 4.6.2 Combat Engineering
      - 4.6.2.1 Defeat Explosive Hazards
      - 4.6.2.2 Enhance Mobility
      - 4.6.2.3 Deny Enemy Freedom of Maneuver
      - 4.6.2.4 Enhance Survivability
    - 4.6.3 Geospatial Engineering
  - 4.7 Installations Support
- 5 Command and Control

4.6.2.1 Defeat Explosive Hazards

The ability to locate and neutralize the full range of enemy and friendly explosive hazards that may impede routine operations and, in particular, decrease mobility or present a threat to force protection. It includes the capability to detect, avoid, and neutralize hazards in concert with mounted or dismounted maneuver (breach) or as part of tactical/operational movement (route clearance).

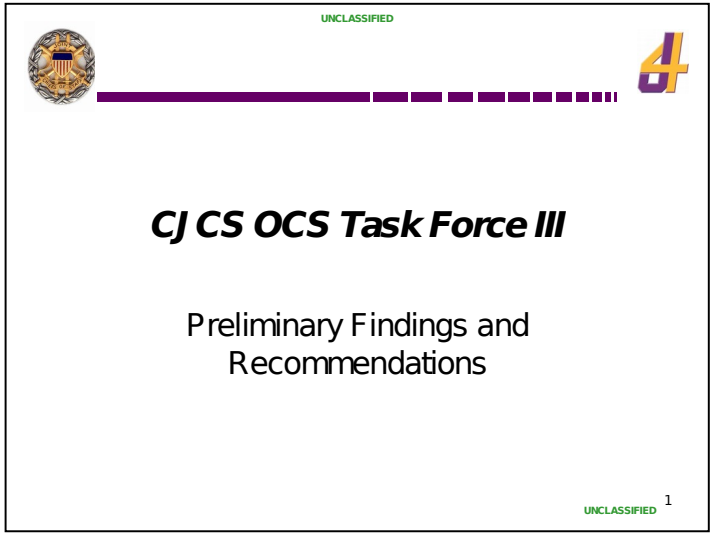
- **Related Documents**
- **Business Rule**
- **Comments**
- **Linkages**

UJTL Linkages | PE Linkages | JOC Linkages

OP 6.2.13 Conduct Countermine Activities
TA 1.3 Conduct Countermine Operations
TA 6.1 Provide Explosives Ordnance Disposal (EOD) Support

826FC	**SOF USN SEAL PLT**	SEAL PLATOON SPECIAL OPERATIONS
	USN A/C Minesweeping Helo	
3HMA1	USN A/C Minesweeping Helo	HM DET (4) MH-53E
3HMAA	USN A/C Minesweeping Helo	HM SQ (10) RH-53E
5MCMA	**USN Minesweepers**	MCM (CL 1)
	USN NECC EOD	
G6GG0	USN NECC EOD	EOD MOBILE UNIT
G6GG1	USN NECC EOD	EOD MCM DET ASHORE
G6GG3	USN NECC EOD	EODMU DET
G6GG7	USN NECC EOD	EOD MOBILE DET AFLOAT ARG
G6GG8	USN NECC EOD	EOD MOBILE DET AFLOAT CVBG
G6GG9	USN NECC EOD	EOD MOBILE DET ASHORE
G6GGJ	USN NECC EOD	EODMU MK 6 MMS DET (AIR TRANSPORT)
G6GGM	USN NECC EOD	EXPLOSIVE ORDNANCE DISP GRP
G6GGQ	USN NECC EOD	EOD TRAIN/EVAL UNIT
G6GSM	USN NECC EOD	MOBILE MINE ASSEMBLY GRP DET
GEODS	USN NECC EOD	EOD SHORE DET
GMINE	USN NECC EOD	MOBILE MINE ASSEMBLY GROUP
GNAVY	USN NECC EOD	ORDNANCE TYPE ORGANIZATION
HW866	**EOD HQS CO**	HQS CO, EOD
4NZZZ	**ENG Mob Aug CO**	MOB AUG CO (MAC) (RECAP)
	ENG Sapper CO	
43666	ENG Sapper CO	Sapper CO(Recap)(ABN)
44666	ENG Sapper CO	Sapper CO(Recap)(wheel)
4PZZZ	ENG Sapper CO	SAPPER COMPANY (RECAP)
	USAF EOD	
4FPXE	USAF EOD	EN EOD JOURNEYMAN TEAM
4F9X2	USAF EOD	EN EOD FOLLOW TEAM
4F9X9	USAF EOD	EN EOD AUGMENTATION TEAM
4F9XA	USAF EOD	EN EOD OFFICER
4F9XD	USAF EOD	EN EOD SENIOR NCO
4FNRX	USAF EOD	EN BSART REVOVERY TEAM EOD
4FPXA	USAF EOD	EN EOD OFFICER MGT
4FPXB	USAF EOD	EN EOD SENIOR NCO MANAGEMENT
4FPXC	USAF EOD	EN EOD TEAM LEADERSHIP
4FPXD	USAF EOD	EN EOD CRAFTSMAN TEAM
4FPXE	USAF EOD	EN EOD JOURNEYMAN TEAM

CJCS Operational Contract Support TF



- **In the Summer of 2008, SECDEF posed a question to CJCS regarding DOD's dependence on contractors… which was further scoped to dependence on contractor provided combat and security training**

- **CJCS desired a more in-depth study to determine the range and depth of contracted capabilities necessary to support the Joint Force**
- **CJCS Intent…**
  - **Better understand contracted capabilities in Iraq and Afghanistan to determine areas of high reliance or dependence…**
  - **Guide the development of future contingency planning and force development**
- **Collect Data**
  - **Categorize "service" contracts by type – System Spt, External Spt, Theater Spt**
  - **Map contract support by Joint Capability Area (JCA)**
  - **Cross-reference JCAs to the Universal Joint Task List (UJTL)**
- **Assess reliance/dependence on contract support across capability areas relative to organic capabilities**

OCS Operational Contract Support TF

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OCS Tools Issue #2.b

Finding:	Existing and emerging IT systems (JCRM, cASM, SPS, others) can support OCS planning with minor modifications
Recommend:	Develop UTC to account for contractor capability in force lists or deployments.
Rationale:	• No existing means to uniquely ID contractor functional requirement in JOPES • Creates placeholder for contractor personnel and equipment movement data and accountability
Change from: (as is)	NA
Change to: (to be)	JOPES – see process Policy Issue #3
Way Ahead:	Socialize with J3, J7, & J8, combatant commands, and

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OCS Tools Issue #2.a

Finding:	Existing and emerging IT systems (JCRM, cASM, SPS, SPOT, and others) can support OCS planning with minor modifications
Recommend:	Incorporate JCAs, Contingency Contract markers, CJCS Project Codes and other operational relevant attributes into existing and emerging IT systems supporting OCS (Codify in Requirements Documents, e.g. OCS CBA material solutions)
Rationale:	We need planning processes and IT systems that allow seamless transition between planning and execution. Planning processes and IT systems must feed executable force projection display systems
Change from: (as is)	NA
Change to: (to be)	See recommendation
Way Ahead:	Socialize with J3, J7, & J8, CCDRs, and Services
Stakeholders:	J1 J2 J3 J4 J5 J6 J7 J8 OSD

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UTC Proposal - 1

Count of Ti						
JCA_Nu	Tier_1	Tier2_Alt	JCA_Cde	Tier3_Alt	UTC	Total
1	Force Support	FMgmt	FSFM01	GlobalForceMgmt	B111A	1
			FSFM02	ForceConfig	B112A	1
			FSFM03	GlobalPostureExecution	B113A	1
		Fprep	FSFP01	Training	B121A	1
			FSFP02	Exercising	B122A	1
			FSFP03	Educating	B123A	1
			FSFP04	Doctrine	B124A	1
			FSFP05	LessonsLearned	B125A	1
			FSFP06	Concepts	B126A	1
			FSFP07	Experimentation	B127A	1
		HeathReadiness	FSHR01	ForceHealthProtect	B131A	1
			FSHR02	HealthCareDelivery	B132A	1
			FSHR03	HealthSvcSpt	B133A	1
		HumCapMgmt	FSHC01	Pers&FamilySpt	B141A	1
			FSHC02	PersMgmt	B142A	1
1 Total						15
2	Battlespace Awareness	Environ	BAEN01	Collect	B211A	1
			BAEN02	Analyze	B212A	1
			BAEN03	Predict	B213A	1
			BAEN04	Exploit	B214A	1
		ISR	BAIS01	Plan&Direction	B221A	1
			BAIS02	Collection	B222A	1
			BAIS03	Processing/Exploitation	B223A	1
			BAIS04	Analysis&Production	B224A	1
			BAIS05	ISRDissemination	B225A	1
2 Total						9
3	Force Application	Engage	FAEN01	Kinetic	B311A	1
			FAEN02	Non-Kinetic	B312A	1
		Mnvr	FAMN01	MnvrtoEngage	B321A	1
			FAMN02	MnvrtoInsert	B322A	1
			FAMN03	MnvrtoInfluence	B323A	1
			FAMN04	MnvrtoSecure	B324A	1
3 Total						6

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OCS Operational Contract Support TF

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OCS Rules Issue #4

Finding:	JOPES application is needed at Level 1, 2, & 3 (not just level 3T / 4) enabling comprehensive adaptive planning
Recommend:	JOPES Volumes I and II direct that ALL level plans include time phased force deployment-like listing (TPFDL) of forces needed to support the COCOM recommended contingency plan CONOPS
Rationale:	Successful OCS planning relies upon knowing the density of personnel and equipment necessary to estimate execution of CONPLAN/OPLAN CONOPS
Change from:	CJCSM 3110.01G is silent on this
Change to: (to be/insert)	Include a time phased force deployment-like data listing (TPFDL) of all forces needed to support the recommended course of action (COA) to a type unit level of detail at a minimum
Way Ahead:	Make change recommendations to JOPES Manual Vols I and II. Socialize with J 3, J 5 and J 7
Stakeholders:	J1 J2 J3 J4 J5 J6

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MINIMUM TPFDL-LIKE DATA ELEMENTS

Unit Info				Destination Info	
Service	**Unit Type Code (Minimum of 1st character)**	**FORCE DESC (short type name of force requirement)**	**AUTH PERS (personnel strength associated with unit type)**	**LOC NAME (name of geographical location of the POD or ocean area)**	**LAD or RDD (latest day in which force described must arrive at the POD or ocean area)**
Example: Using existing UTCs					
F	3FVF1	TFE 12 A 10 LD	33	Bagram AFD	C15
A	Q3F77	MP Co Cbt Spt	187	Bagram	C22
F	7FVAN	TCS TCOT Team	10	Bagram AFD	C08
Example: Proposed contractor UTC construct (Future)					
J	B222A	Collect airborne ISR	44	Bagram AFD	C30
A	B443A	Provide Basecamp Svcs (5K pers)	220	Tarin Kowt	C45
A	B423A	Perform Geospatial Engr – RC-N	15	Bagram AFD	C45
J	B121A	Train Afghan Army	125	Multiple sites	C60

UTC

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Sample TPFDL-like Data

svcco	utc	Svc_UT	JCA_	unitname	describe	origin	originame	dest	destname	Phase	rdd	pa	CTR Type	CtrPax
A	1QFFF_	A1	FA		ADA BTRY,PATRIOT		Unknown	ALDD	Prince Sultan Ab	Phase 0	-10	0		
A	1QFFF_	A1	FA		ADA BTRY,PATRIOT		Unknown	ALDD	Prince Sultan Ab	Phase 0	-10	0		
N	826FC_	N8	FA		SEAL PLATOON SPECIAL OPERATIO	EMVX	Coronado	VKWD	Shaikh Isa	Phase 0	-7	16		
N	826FC_	N8	FA		SEAL PLATOON SPECIAL OPERATIO	EMVX	Coronado	VKWD	Shaikh Isa	Phase 0	-7	16		
A	87WNN_	A8	FA		SF GROUP AIRBORNE (-)	HCTL	Ft Bragg	XPSA	Unkn Exst Saurb	Phase 0	-7	1004		
A	8CWNN_	A8	FA		SF BN ABN SF GP	HCTL	Ft Bragg	TVXC	Hafr Al Batin	Phase 0	-4	384		
A	PSG66_	AP	BA	4th POG	PSYOP GROUP ABN	HCTL	Ft Bragg	ADL3	Al Dhafra	Phase 0	-2	1376		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, 1ST BN	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	769		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, 2ND BN	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	769		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, 3RD BN	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	769		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, 4TH BN	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	769		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, FIRES	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	400		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, HHC	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	173		
A	999BB_	A9	LG	BDE SPT CO, BSB, I-BCT	62ND DIV, 1ST BDE, BSB, SPT CO	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	171		
A	999BB_	A9	LG	HQ, BDE SPT BN, I-BCT	62ND DIV, 1ST BDE, BSB, HQ	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	144		
A	VCM66_	AV	BP	MED CO, BSB, I-BCT	62ND DIV,1ST BDE, BSB, MED CO	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	67		
A	199BB_	A1	FA		62ND DIV (OBJ), 1ST BDE, RSTA	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	341		
A	N7677_	AN	LG	MAIN SPT BN, LID 63225	62ND OBJ DIV, MSB-DTSB, 1ST CSS	ESGM	Ft Drum	MPDX	Mobil 1	Phase I	9	223		
A	Q3F77_	AQ	FP	PSC Security Contractor	TEST					Phase 0	-9		Ext	200
A	Q3F77_	AQ	FP	PSC Security Contractor	TEST					Phase I	9		Ext	200

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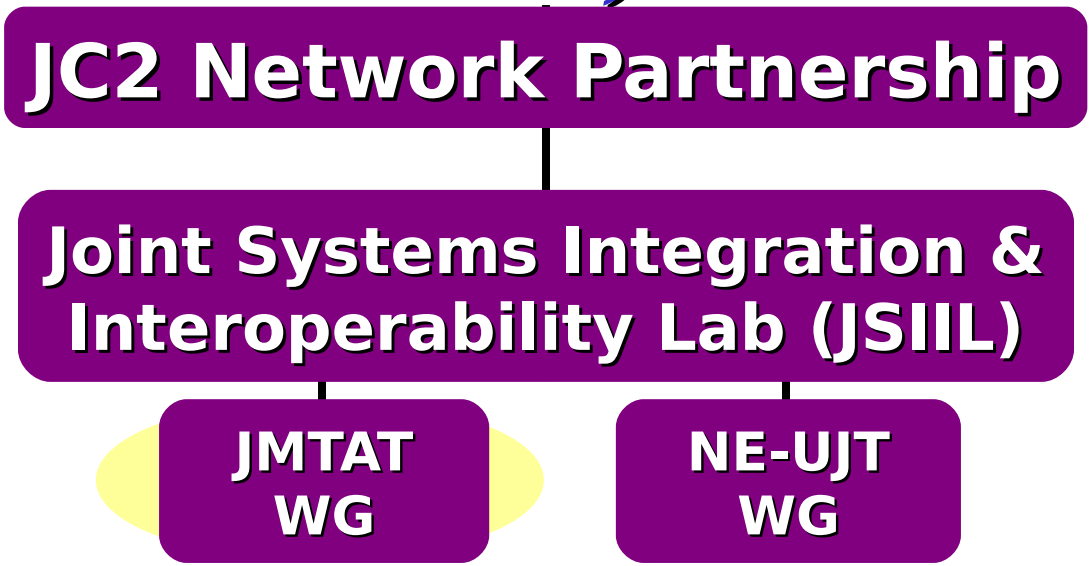
Questions

Joint Mission Thread Architecture & Testing Working Group (JMTAT WG)



- JMTAT WG was formed 25 Jun 09 to collaboratively:
  - ➢ Develop JMT terminology and define processes for JMT development for maximum reusability, extending down to the technical/tactical level
  - ➢ Discover the consumers and producers of JTMs across the DoD, including Interagency and Coalition threads – intent is to leverage work already done
  - ➢ Develop CONOPS, and other guiding documentation, and the initial JMTs
- Consistent with JC2 Network Partnership Charter

 JMTAT WG DKO Site: https://www.us.army.mil/suite/page/525239

JMT Development Products

Tier 1:
JMT: AV-1(High Level), OV-1, OV-2, OV-4, OV-5a, SV-1, Measures, High-Level Executable Architecture (EA) & IV

JMT generic data description – totally reusable architecture-based info sets

Tier 2:

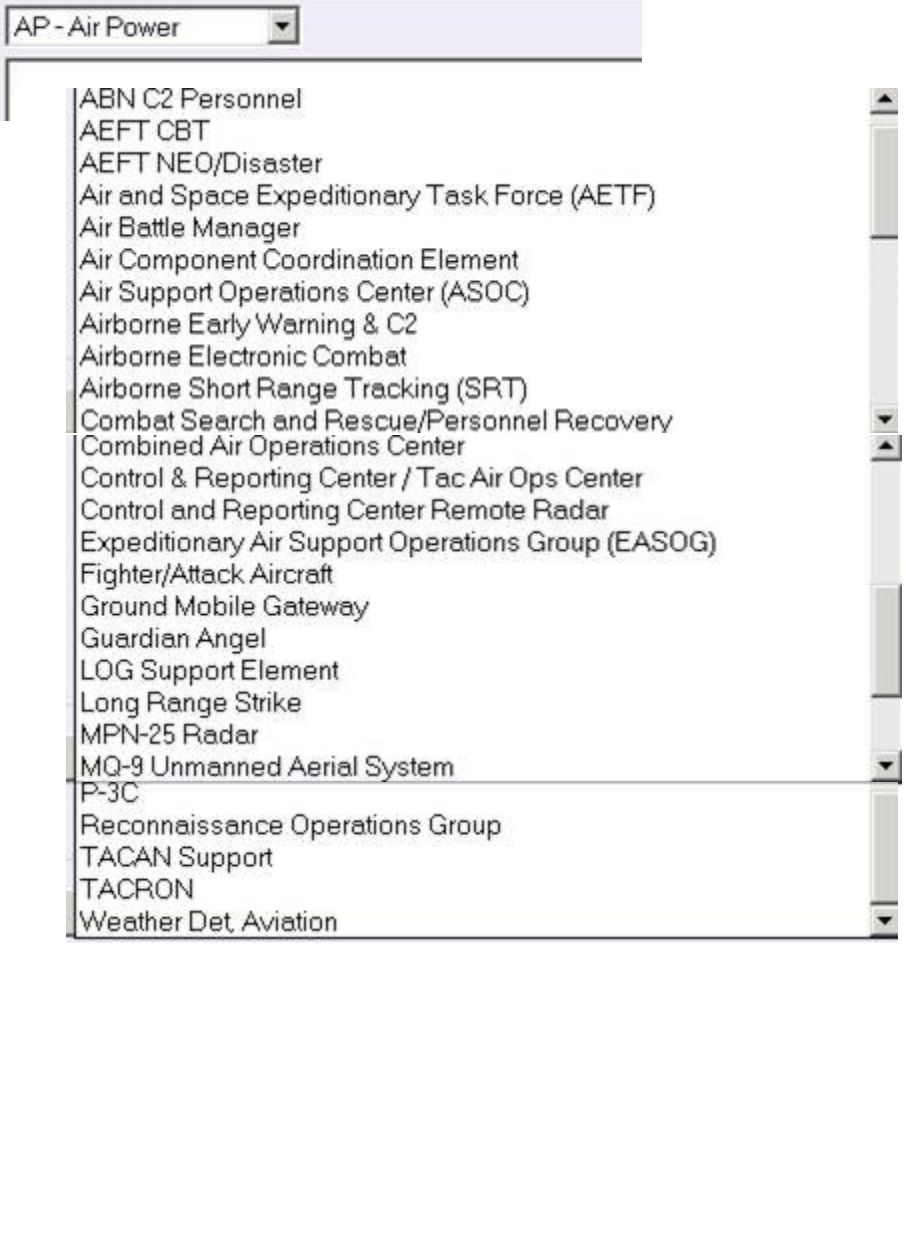
JMT "Strands": (Additional) AV-1 (Specific), OV-2, OV-3, OV-4, OV-5b, OV-6c, SV-1, SV-3, SV-5s, SV-6, SV-10c, SvcV-3, SvcV-5, Baseline EA, or documents that show:

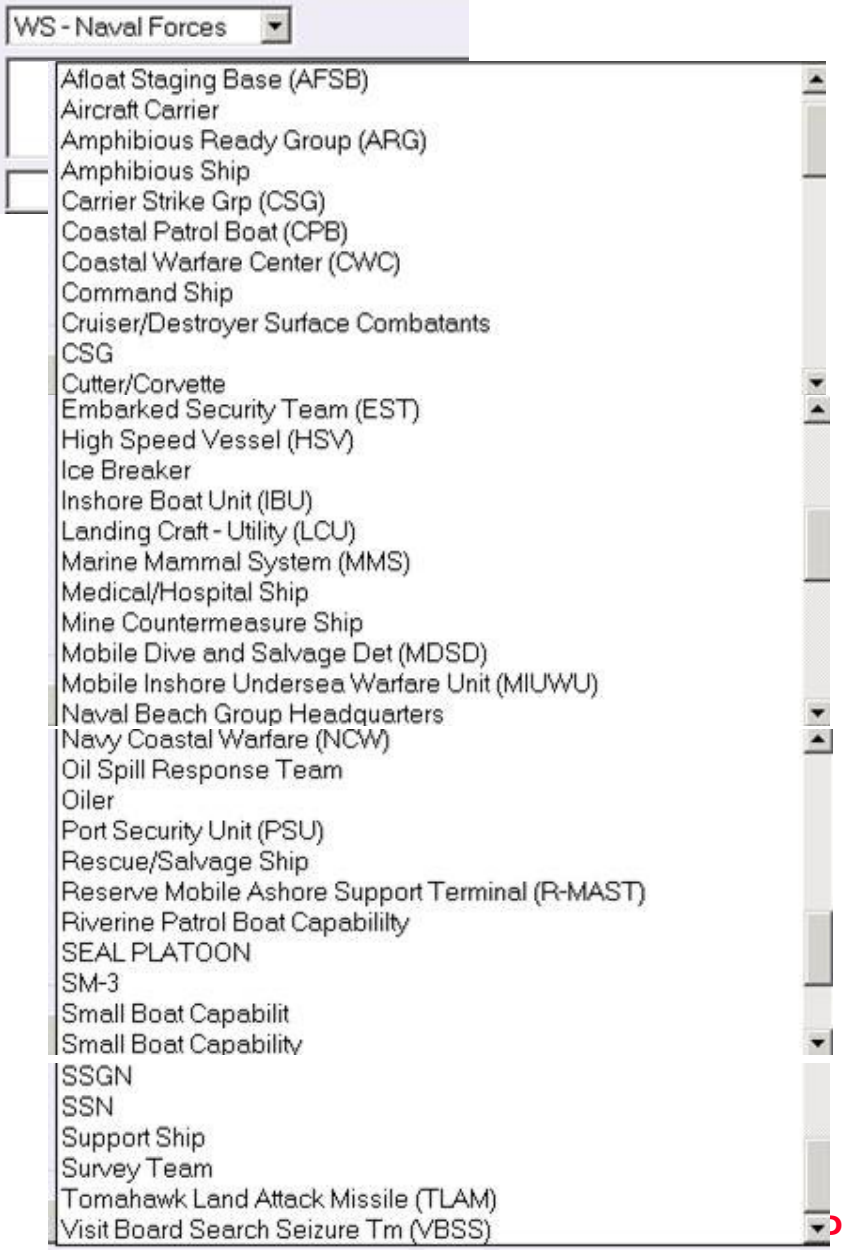
- Node/System Pairing
- Message Order
- Distributions
- Timings
- Decision processes
- System attributes
- System Functionality (IAW JCSFL)
- Information Exchange Requirements (IERs)
- Message composition
- Interoperability Matrix
- Data Exchange Requirements (DERs)
- System Capabilities

JMT "Strand" Tier 2 information represents specific documentation required to answer a particular question or solve a problem. JMT Strands are unique JMT segments that will have specific actors for each node, might use a Service-specific set of TTPs or CONOPS, may be AOR-specific or use a unique set of systems and apps – all subset of Tier 1 information (OV-5, SV-1, etc.).

Tool suite will include JACAE, Architecture-Driven Analysis (ADA) EAs, augmented by:

- JDEIS
- JCSFL


AP - Air Power
ABN C2 Personnel
AEFT CBT
AEFT NEO/Disaster
Air and Space Expeditionary Task Force (AETF)
Air Battle Manager
Air Component Coordination Element
Air Support Operations Center (ASOC)
Airborne Early Warning & C2
Airborne Electronic Combat
Airborne Short Range Tracking (SRT)
Combat Search and Rescue/Personnel Recovery
Combined Air Operations Center
Control & Reporting Center / Tac Air Ops Center
Control and Reporting Center Remote Radar
Expeditionary Air Support Operations Group (EASOG)
Fighter/Attack Aircraft
Ground Mobile Gateway
Guardian Angel
LOG Support Element
Long Range Strike
MPN-25 Radar
MQ-9 Unmanned Aerial System
P-3C
Reconnaissance Operations Group
TACAN Support
TACRON
Weather Det, Aviation


WS - Naval Forces
Afloat Staging Base (AFSB)
Aircraft Carrier
Amphibious Ready Group (ARG)
Amphibious Ship
Carrier Strike Grp (CSG)
Coastal Patrol Boat (CPB)
Coastal Warfare Center (CWC)
Command Ship
Cruiser/Destroyer Surface Combatants
CSG
Cutter/Corvette
Embarked Security Team (EST)
High Speed Vessel (HSV)
Ice Breaker
Inshore Boat Unit (IBU)
Landing Craft - Utility (LCU)
Marine Mammal System (MMS)
Medical/Hospital Ship
Mine Countermeasure Ship
Mobile Dive and Salvage Det (MDSD)
Mobile Inshore Undersea Warfare Unit (MIUWU)
Naval Beach Group Headquarters
Navy Coastal Warfare (NCW)
Oil Spill Response Team
Oiler
Port Security Unit (PSU)
Rescue/Salvage Ship
Reserve Mobile Ashore Support Terminal (R-MAST)
Riverine Patrol Boat Capability
SEAL PLATOON
SM-3
Small Boat Capabilit
Small Boat Capability
SSGN
SSN
Support Ship
Survey Team
Tomahawk Land Attack Missile (TLAM)
Visit Board Search Seizure Tm (VBSS)

JRC to JCA Mapping

	A	B	C	D	E	F	G	H	I	J
1	JRC	JRC Title			JCA1	JCA2	JCA3			
2	AG	Adjutant General			FS	HCM	02			
3	AP	Air Power	Fighter/Attack Aircraft		FA	EN	01			
4			Air Battle Manager		C2	Dir				
5			MQ-9 Unmanned Aerial System		BA	C				
6										
7	AV	Aviation			FA	MN	02			
8	CA	Civil Affairs			BP	SH	02			
9	CBT	Combat			FA	MN	01			
10	CH	Chaplain			FS	HC	01			
11	CM	Chemical			P	PV	01			
12	CS	Corps Support	Composite Service	Combat Support	LG	MT	00			
13					LG	LS				
14										
15										
16	EN	Engineer			LG	EN	00			
17	EOD	Explosive Ordanance Disposal			FP	MT	01	LG	ENG	CE
18	EW	Electronic Warfare			BA	IS	04	FA	EN	NK
19	FI	Finance			CM	PB	03			
20	FS	Fire Support			FA	EN	01			
21	HQ	Headquarters			C2	-	00			
22	IO	~~Information Operations~~			BP	CO	02			
23			EW		FA	EN	NK			
24			CNA, CND		FA	EN	NK	Cyber		
25			CNE		BA	ISR	Coll			
26			OPSEC		P	PV				
27			MilDec		BP	CO				
28			PSYOP		BP	CO				
29	ISR	Intel, Surveil, Recon			BA	IS	00			
30	MH	Military Historian			CM	SA	04			
31	MI	Military Intelligence			BA	-	00			
32	MOB	Mobility			LG	DD	01			
33	MP	Military Police			P	MT	01	FA	MN	MTS
34	MS	Medical Service			FS	HR	00			
35	OD	Ordnance			LG	SU	01			
36	PA	Public Affairs			BP	CO	01			
37	PO	PSYOP			BP	CO	03			
38	PRT	Provisional Reconstruction Team			BP	SH	01			
39	QM	Quartermaster			LG	SU	01			
40	SC	Signal			NC	IT	02			
41	SEC	Security Forces			P	PV	01	FA	MN	MTS
42	SOF	Special Operations Forces			FA	MN	03			
43					FA	EN	K			
44					BA	ISR	Coll			
45	TC	Transportation Corps			LG	DD	02			
46	TNG	Training			FS	FP	Tng			
47	WS	Naval Forces			FA	EN	01			
48			Naval Beach Group HQ		C2					
49			Landing Craft Utility		LG	DD				
50			High Speed Vessel		LG	DD				
51			Medical / Hospital Ship		FS	HR	HCD			
52			Seal Plt		FA	EN	K			
53			Tomahawk LAM		FA	EN	K			
54			Mine Countermeasure Ship		P	PV	SS			
55										